

MEMBRANE MODULE

Publication number: JP11333265

Publication date: 1999-12-07

Inventor: KITAGAWA ATSUSHI; USUKI KEIKI; AKIYAMA MASAO

Applicant: NITTO DENKO CORP

Classification:

- **International:** B01D63/02; B01D63/06; B01D63/10; B01D65/00;
B01D63/02; B01D63/06; B01D63/10; B01D65/00;
(IPC1-7): B01D65/00; B01D63/02; B01D63/06;
B01D63/10

- **European:**

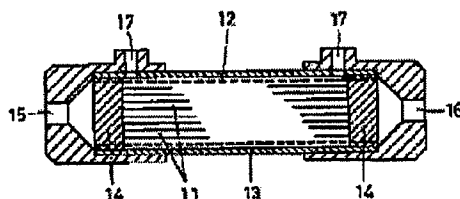
Application number: JP19980162955 19980526

Priority number(s): JP19980162955 19980526

Report a data error here

Abstract of JP11333265

PROBLEM TO BE SOLVED: To prevent a network matter from undergoing creep deformation and an outer surface of a membrane from being damaged by the network matter by employing the network matter having a string woven in a cylindrical shape, which string is made from a thermoplastic resin having a thermal deformation temperature not less than a specified value, in a membrane module prepared by covering a plurality of hollow fiber membranes with the network matter and housing them in a case. **SOLUTION:** A plurality of hollow fiber membranes 11 are parallelly bundled and its outer circumference is covered with a network matter 12 and they are housed within a cylindrical case 13 and both ends thereof are filled with a heat resistant cast resin 14 so as to constitute a membrane module. In this case, the network matter 12 is formed by weaving strings of a thermoplastic resin having thermal deformation temperature of 150 deg.C or higher, e.g. polysulfone or the like in a cylindrical shape so as to prevent creep deformation and is partially fused so as to enhance strength. The cross section of the string is formed in a round shape so that an outer surface of a membrane is prevented from being damaged by the network matter 12. A raw solution is allowed to flow through an inlet 15 and permeate through the hollow fiber membrane 11 and then extracted from an outlet 17 and a concentrated solution is extracted from an outlet 16.



Data supplied from the esp@cenet database - Worldwide